

Order of Operations Review

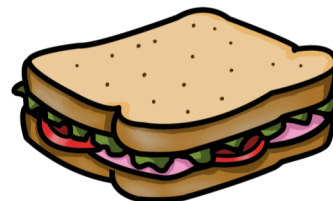
Algebraic expression: $3 \times (4 + 8)$

Algebraic equation: $3 \times (4 + 8) = x$

When we find the answer to the problems above, we say that we “evaluate” the expression or we “solve” the equation. When a math problem includes several operations, we must perform those operations in a certain order:

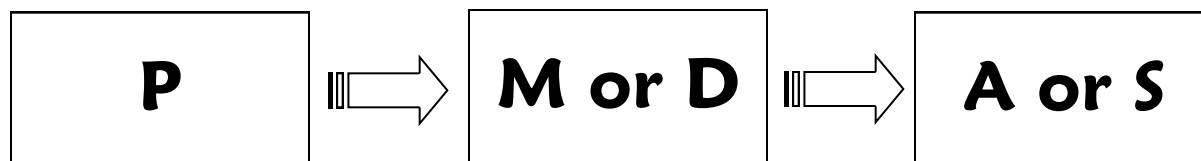
1. **P** - Parentheses
2. **M or D** - Multiplication or Division (left to right)
3. **A or S** - Addition or Subtraction (left to right)

Some people remember the order of the letters with this silly saying:



Pass **M**y **D**ad **A** **S**andwich

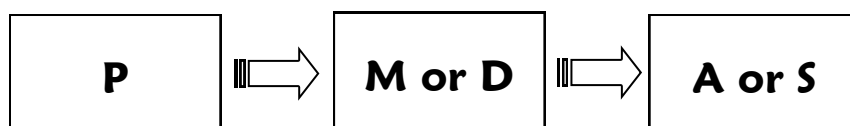
However, this can get tricky! Multiplication and division problems are solved before addition or subtraction, but their order is determined by which comes first in the problem. For example, in the expression $18 \div 2 \times 3$, you would first divide 18 by 2 and then multiply by 3. The operations of addition and subtraction follow the same rules. This 3-step graphic organizer may help you remember the order of operations:



Order of Operations Practice

When using order of operations, it's helpful to copy the problem and solve it step-by-step, with each step on its own line. As you perform each operation, transfer the unsolved parts to the next line as shown. Don't forget to perform the steps using the correct order of operations.

$$\begin{array}{r}
 9 + (2 \times 3) \\
 \swarrow \quad \searrow \\
 9 + 6 \\
 \swarrow \quad \searrow \\
 15
 \end{array}$$

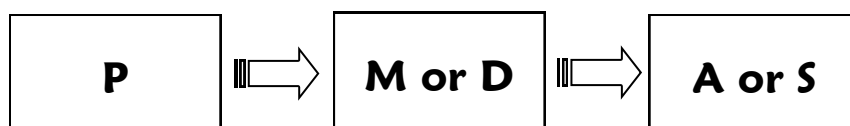


1. $7 \times (3 + 4)$	2. $15 - (2 + 7)$
3. $8 + 6 \times 2$	4. $14 - 5 + 3$
5. $12 \div 2 \times 3$	6. $18 - (2 + 1) + 4$

Order of Operations Practice (Key)

When using order of operations, it's helpful to copy the problem and solve it step-by-step, with each step on its own line. As you perform each operation, transfer the unsolved parts to the next line as shown. Don't forget to perform the steps using the correct order of operations.

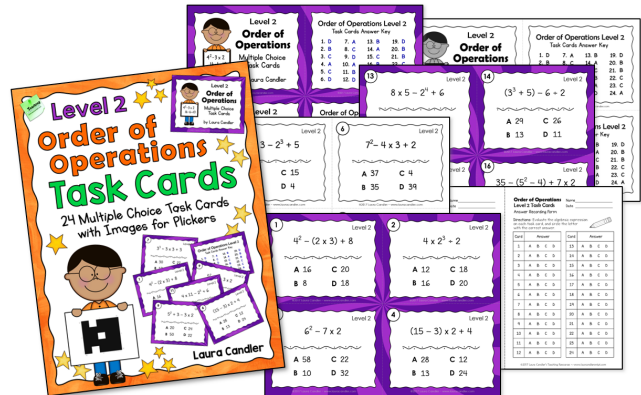
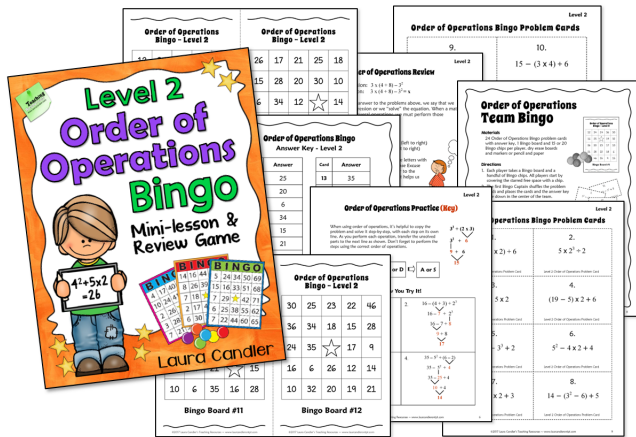
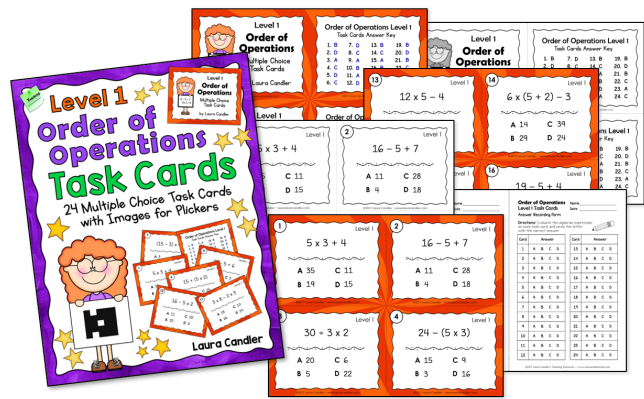
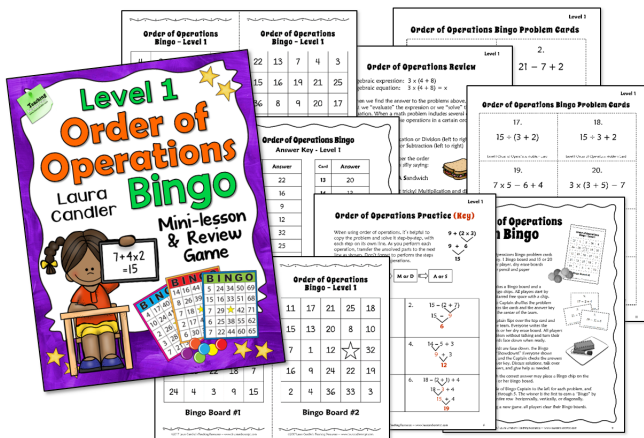
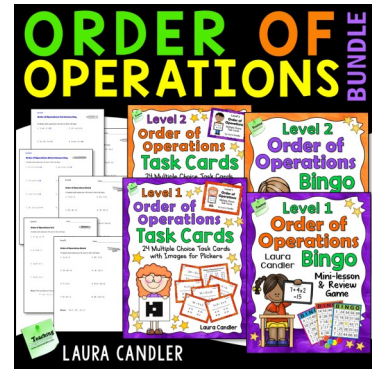
$$\begin{array}{r}
 9 + (2 \times 3) \\
 \quad \swarrow \searrow \\
 9 + 6 \\
 \quad \swarrow \searrow \\
 15
 \end{array}$$



<p>1. $7 \times (3 + 4)$</p> $ \begin{array}{r} 7 \times (3 + 4) \\ \quad \swarrow \searrow \\ 7 \times 7 \\ \quad \swarrow \searrow \\ 49 \end{array} $	<p>2. $15 - (2 + 7)$</p> $ \begin{array}{r} 15 - (2 + 7) \\ \quad \swarrow \searrow \\ 15 - 9 \\ \quad \swarrow \searrow \\ 6 \end{array} $
<p>3. $8 + 6 \times 2$</p> $ \begin{array}{r} 8 + 6 \times 2 \\ \quad \swarrow \searrow \\ 8 + 12 \\ \quad \swarrow \searrow \\ 20 \end{array} $	<p>4. $14 - 5 + 3$</p> $ \begin{array}{r} 14 - 5 + 3 \\ \quad \swarrow \searrow \\ 9 + 3 \\ \quad \swarrow \searrow \\ 12 \end{array} $
<p>5. $12 \div 2 \times 3$</p> $ \begin{array}{r} 12 \div 2 \times 3 \\ \quad \swarrow \searrow \\ 6 \times 3 \\ \quad \swarrow \searrow \\ 18 \end{array} $	<p>6. $18 - (2 + 1) + 4$</p> $ \begin{array}{r} 18 - (2 + 1) + 4 \\ \quad \swarrow \searrow \\ 18 - 3 + 4 \\ \quad \swarrow \searrow \\ 15 + 4 \\ \quad \swarrow \searrow \\ 19 \end{array} $

Order of Operations Bingo Games, Task Cards, and Tests Bundle

These resources are samples from my Order of Operations Bundle which includes games and task cards on two different levels as shown below. The bundle also includes a test and a retest for each level. [Click HERE](#) to see the bundle on TpT and then use the preview links on that page to take a closer look at each item.



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Laura Candler